PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: BRIAN W. POOR TOWNSEND AND TOWNSEND AND CREW ALD	PCT			
TOWNSEND AND TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER, 8TH FLOOR SAN FRANCISCO, CA 94111	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION			
	·(PCT Rule 44.1)			
	Date of Mailing (day/month/year) 30 OCT 2003			
Applicant's or agent's file reference 20093-28-1PC	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US03/19428	International filing date (day/month/year) 19 June 2003 (19.06.2003)			
Applicant NORTHWEST BIOTHERAPEUTICS, INC.				
The applicant is hereby notified that the international sea Filing of amendments and statement under Article 19	rch report has been established and is transmitted herewith.			
The applicant is entitled, if he so wishes, to amend the cl	laims of the international application (see Rule 46):			
When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.				
Where? Directly to the International Bureau of WIPe 1211 Geneva 20, Switzerland, Facsimile No.	O, 34, chemin des Colombettes D.: (41-22) 740.14.35			
For more detailed instructions, see the notes on the accompanying sheet.				
2. The applicant is hereby notified that no international sear Article 17(2)(a) to that effect is transmitted herewith.	The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.			
3. With regard to the protest against payment of (an) addi	tional fee(s) under Rule 40.2, the applicant is notified that:			
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
	pricant will be notified as soon as a decision is made.			
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.				
Within 19 months from the priority date, but only in respect of some designated Offices, a demand tor international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.				
	hs (or later) will apply even if no demand is filed within 19 months.			
See the Annex to Form PCT/IB/301 and, for details about the Guide, Volume II, National Chapters and the WIPO Internet site	e applicable time limits, Office by Office, see the PCT Applicant's			
ame and mailing address of the ISA/US Authorized officer Authorized officer				
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450	Joseph W. Drodge			

Alexandria, Virginia 22313-1450
Facsimile No. (703)305-3230
Form PCT/ISA/220 (April 2002)

'See notes on accompanying sheet)

Telephone No. 703-308-0661

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	licant's 93-28-11	or agent's file reference PC	FOR FURTHER ACTION		cation of Transmittal of International Search orm PCT/ISA/220) as well as, where applicable, ow.		
	rnationa //US03/	l application No. 19428	International filing date (day/mont 19 June 2003 (19.06.2003)		(Earliest) Priority Date (day/month/year) 19 June 2002 (19.06.2002)		
1	Applicant NORTHWEST BIOTHERAPEUTICS, INC. /						
acco	This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets.						
Ĺ	12	It is also accompanied	by a copy of each prior art docur	nent cited	in this report.		
1.	 Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 						
	the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:						
		contained in the internationa	l application in written form.	•			
	filed together with the international application in computer readable form.						
	furnished subsequently to this Authority in written form.						
	furnished subsequently to this Authority in computer readable form.						
	the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		the statement that the inform been furnished.	ation recorded in computer readable	form is ide	entical to the written sequence listing has		
2.		Certain claims were found	unsearchable (See Box I).				
3. Unity of invention is lacking (See Box II).							
4.	With re	egard to the title,					
	\bowtie	the text is approved as submi	·				
!	Ш	the text has been established	by this Authority to read as follows	:			
5.	With re	egard to the abstract,			·		
the text is approved as submitted by the applicant.							
	\boxtimes	the text has been established,	according to Rule 38.2(b), by this	Authority a	is it appears in Box III. The applicant may, t, submit comments to this Authority.		
6.	6. The figure of the drawings to be published with the abstract is Figure No. 1						
				None of the figures			
		because the applicant failed t	o suggest a figure.				
		because this figure better cha	racterizes the invention.		1		

Form PCT/ISA/210 (first sheet) (July 1998)



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/19428

Box III	TEXT OF	THE ABSTRACT	(Continuation of	Item 5	of the	first sheet))
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The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT:

The present invention provides tangential flow filtration devices and methods for enriching a heterogenoeous mixture of blood constitutents for leukocytes by removal of non-leukocyte blood constituents. In one particular embodiment the device can provide a composition enriched in monocytes. One embodiment includes a remover unit (1) having a crossflow chamber (3) separated by a microporous filter (5) from a filtrate chamber (4), the remover unit (1) also having a tangential flow inlet (6), a fluid outlet (7) for a fluid enriched in leukocytes and a filtrate outlet (8).

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)

	INTERNATIONAL SEARCH REPORT	PCT/US03/19428
	Continuation of B. FIELDS SEARCHED Item 1: 210/650,195.1,195.2,198.1,257.2,259,321.6,321.65,321.75,321.84,639,641,651,7 435/372	67,805,806; 422/72,101,102; 436/177,178; 424/534;
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Form PCT/ISA/210 (second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/19428

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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : B01D 61/14 US CL : 210/650 According to International Patent Classification (IPC) or to both national classification and IPC					
	DS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: Please See Continuation Sheet					
Documentation	on searched other than minimum documentation to the	extent that such documents are included in	n the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a		Relevant to claim No.		
Y,P	US 6,497,821 B1 (BELLAMY JR. et al) 24 Decemb	per 2002, see entire document	1-69		
Y	US 6,398,956 B1 (COVILLE et al) 04 June 2002, se	ee entire document	1-69		
Y	US 6,194,204 B1 (CRAWFORD et al) 27 February	2001, see entire document	12-22,36-39 and 50-69		
Y	US 5,695,653 A (GSELL et al) 09 December 1997,	see entire document	1-69		
Y	US.5,690,815 A (KRASNOFF et al) 25 November 1	997, see entire document	1-69		
Y	US 4,420,398 A (CASTINO et al) 13 December 198	3, see entire document			
Further	documents are listed in the continuation of Box C.	See patent family annex.			
* S	pecial categories of cited documents:	"T" later document published after the inter	rnational filing date or priority		
	defining the general state of the art which is not considered to be	date and not in conflict with the application principle or theory underlying the investigation.	ation but cited to understand the		
"E" earlier ap	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone	claimed invention cannot be red to involve an inventive step		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination			
"O" document referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in the			
	published prior to the international filing date but later than the ate claimed	"&" document member of the same patent t	family		
Date of the ac	ctual completion of the international search	Date of mailing of the international search report			
	003 (09.10.2003)	30 OCT 2003			
	ailing address of the ISA/US	Authorized officer			
	il Stop PCT, Attn: ISA/US nmissioner for Patents	Joseph W. Drodge Muffiller			
P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. 703-308-0601					
Facsimile No. (703)305-3230					